PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference W2214-000000				FOR FURTHER AC	CTION	See Form PCT/IPEA/416				
International application No.				International filing date	e (day/month/vear)	Priority date (day/month/year)				
PCT/JP2005/001832				08.02.2005		09.02.2004				
International Patent Classification (IPC) or national classification and IPC D03D15/12 (2006.01), B29B11/16 (2006.01), D03D11/00 (2006.01) B29K105/10 (2006.01)										
Applicant ASAHI-SCHWEBEL CO., LTD.										
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.	This R	EPORT consis	ts of a total of	4	sheets, including this cover sheet.					
3.	This re	eport is also acc	ompanied by A	NNEXES, comprising:						
	a. 🕨	(sent to th	e applicant and	to the International Bur	eau) a total of	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
	, г	Box.		D 1 1 5 1 5 1						
	b. <u></u>	(sent to th	e International i	Bureau only) a total of (1	indicate type and number	r of electronic carrier(s))				
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see									
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4.	This re	eport contains in	ndications relati	ng to the following item	s:					
	\boxtimes	Box No. I	Basis of the	report	eport					
		Box No. II	Priority							
		Box No. III	Non-establi	shment of opinion with i	regard to novelty, invent	ive step and industrial applicability				
		Box No. IV	Lack of unit	ty of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI Certain documents cited									
	Box No. VII Certain defects in the international application									
	Box No. VIII Certain observations on the international application									
Date of submission of the demand			1	Date of completion of the	is report					
Name and mailing address of the IPEA/JP				1	Authorized officer					
Facsimile No.				Геlephone No.						

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International application No.

PCT/JP2005/001832

Box	No. I	I Basis of the report							
1.		h regard to the language, this report is based on the international icated under this item.	I application in the language in which it	was filed, unless otherwise					
		This report is based on translations from the original language which is the language of a translation furnished for the purpose international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or	es of:	,					
2.	rece	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to eport): the international application as originally filed/furnished the description:							
		pages 1-17, 19		as originally filed/furnished					
		pages* 18							
		pages* 1	received by this Authority on						
	\boxtimes	the claims:							
		nos. 1-8		as originally filed/furnished					
		nos.*	as amended (together with a	ny statement) under Article 19					
		nos.*	received by this Authority on						
		nos.*	received by this Authority on						
	\boxtimes	the drawings:							
		sheets 1, 2		as originally filed/furnished					
		sheets*	received by this Authority on						
		sheets*	received by this Authority on						
		a sequence listing and/or any related table(s) – see Supplemen	tal Box Relating to Sequence Listing.						
3.		The amendments have resulted in the cancellation of:							
		the description, pages	7						
		the claims, nos.							
		the drawings, sheets/figs							
4.		This report has been established as if (some of) the amendmenthey have been considered to go beyond the disclosure as filed	ents annexed to this report and listed b	elow had not been made, since					
		the description, pages							
		the claims, nos.							
		the drawings, sheets/figs							
		the sequence listing (specify):							
		any table(s) related to sequence listing (specify):							
*	If ite	em 4 applies, some or all of those sheets may be marked "supers	seded."						

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PCT/JP2005/001832

Box			rticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		NO
Inventive step (IS)		Claims		YES
		Claims	1-8	NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 56-58024 A claim 1, page 2, upper left column, lines 9 to 20; page 2, upper right column, lines 13 to 18; fig. 1

Document 2: JP 2001-55642 A, claim 1, paragraph [0002]

Claims 1 to 8

Documents 1 and 2

The inventions set forth in claims 1 to 8 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 sets forth a fiber material for fiberreinforced resin, having a bilayer structure comprising a
back side structure and a face side structure in which
reinforcing fibers are used, and said back side structure
and face side structure have their fiber structures
interconnected to form an integrated body (claim 1, page
2, upper left column, lines 9 to 20). In addition, glass
fiber is disclosed as the aforementioned fiber (page 2,
upper right column, lines 13 to 18), and a plain weave is
disclosed as the structure of the fabric (page 2, upper
left column, lines 9 to 20).

It is a known technique to use a fiber material for fiber-reinforced resin as a material for printed circuit

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

boards (see document 2, if necessary).

In addition, document 2 sets forth a production method wherein prepreg comprising glassfiber impregnated with resin in a semi-hardened state is laminated, a metal foil such as copper foil is overlaid on both sides, and this is heated under pressure to harden the resin (paragraph [0002]). It would be easy for a person skilled in the art to employ said method when using the fiber material set forth in document 1 for printed circuit boards.

Moreover, after hardening the resin, preparing a circuit pattern and forming through-holes is merely the application of known techniques.